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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/863,594	05/23/2001	Jorg Rheims	VOI0189.US	9308	
75	90 10/01/2002				
Todd T. Taylor			EXAM	EXAMINER	
TAYLOR & AUST. P.C. 142 S. Main St.			ALVO, MARC S		
P.O. Box 560 Avilla, IN 46710			ART UNIT	PAPER NUMBER	
111111111111111111111111111111111111111			1731	a	
			DATE MAILED: 10/01/2002	0	

Please find below and/or attached an Office communication concerning this application or proceeding.

			mk-8			
		Application No.	plicant(s)			
		09/863,594	RHEIMS ET AL.			
	Office Action Summary	Examiner	Art Unit			
12		Steve Alvo	1731			
	- The MAILING DATE of this communication	appears on the cover sheet	with the correspondence address			
Period fo	r Reply					
THE M - Exten after S - If the - If NO - Failui	DRTENED STATUTORY PERIOD FOR REIMAILING DATE OF THIS COMMUNICATION Issions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per reto reply within the set or extended period for reply will, by state ply received by the Office later than three months after the mand patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may reply within the statutory minimum of iod will apply and will expire SIX (6) N	a reply be timely filed thirty (30) days will be considered timely. IONTHS from the mailing date of this communication. ARANDONED (35 U.S.C. § 133).			
1) 🗵	Responsive to communication(s) filed on	<u>19 June 2002</u> .	•			
2a)⊠	This action is FINAL. 2b)	This action is non-final.				
3)□	Circo this application is in condition for all	owance except for formal (matters, prosecution as to the merits is			
, -	closed in accordance with the practice undition of Claims	der <i>Ex parte Quayle</i> , 1935	C.D. 11, 453 O.G. 213.			
-	Claim(s) 1-32 is/are pending in the applica	ition.				
	4a) Of the above claim(s) 20-32 is/are without					
	Claim(s) is/are allowed.					
· ·	Claim(s) 1-19 is/are rejected.					
	Claim(s) is/are objected to.					
	Claim(s) are subject to restriction ar	nd/or election requirement.				
	ion Papers					
9) 🗌	The specification is objected to by the Exan	niner.	- .			
10)	The drawing(s) filed on is/are: a) a	accepted or b) objected to	by the Examiner.			
	Applicant may not request that any objection	to the drawing(s) be held in a	beyance. See 37 CFR 1,85(a).			
11)	The proposed drawing correction filed on _	is: a)∏ approved b)[disapproved by the Examiner.			
	If approved, corrected drawings are required	in reply to this Office action.				
12)	The oath or declaration is objected to by the	e Examiner.				
Priority	under 35 U.S.C. §§ 119 and 120		(2)			
13)	Acknowledgment is made of a claim for fo	reign priority under 35 U.S	.C. § 119(a)-(d) or (f).			
) All b) Some * c) None of:					
	1. Certified copies of the priority docur	ments have been received.				
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the application from the International	al Bureau (PC) Rule 17.2(ajj.			
*	See the attached detailed Office action for	a list of the certified copies	TION TECETIVES.			
14)	Acknowledgment is made of a claim for dor	mestic priority under 35 U.S	S.C. 9 T19(e) (to a provisional application)			
15)	 a) The translation of the foreign languag Acknowledgment is made of a claim for do 	e provisional application h mestic priority under 35 U.	as been received. S.C. §§ 120 and/or 121.			
Attachme	ent(s)		AND DESCRIPTION			
2) No	tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (PTO-94 ormation Disclosure Statement(s) (PTO-1449) Paper N	(8) 5) Noti	view Summary (PTO-413) Paper No(s) ce of Informal Patent Application (PTO-152) er:			
U.S. Patent and	Trademark Office		Part of Paper No. 8			

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Claims 20-32 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a non-elected invention, there being no allowable generic or linking claim.

Election was made without traverse in Paper No. 6. The requirement is repeated and made Final.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over KLUNGNESS et al in view of CARLSMITH et al and GREEN et al.

KLUNGNESS et al teaches fluffing calcium oxide or hydroxide is added in a reactor/fluffer to form calcium carbonate. The pulp of KLUNGNESS et al is fluffed in a pressurized refiner or any suitable high shear device (column 7, lines 6-19). CARLSMITH et al teaches that refiners fluff the pulp and make the pulp more porous. It would have been obvious that the refiner makes the pulp more porous, e.g. increases the specific surface, as taught by CARLSMITH et al. IT would have been further obvious theat the refiner of KLUNGNESS et al fluffs the pulp as such is taught by CARLSMITH et al. Or it would have been obvious to substitute the high shear refiner/fluffer of CARLSMITH et al for the high shear refiner of KLUNGNESS et al as KLUNGNESS teaches that any high shear mixing device could be used to agitate the pulp. The claimed conditions of the dependent claims do not appear to differ from the conditions used by KLUNGNESS. Green et al teaches adding calcium carbonate directly into the pulp during agitation rather than precipitating calcium carbonate onto the pulp. It would

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have been obvious to the artisan that the calcium carbonate of KLUNGNESS could have been added directly into the fluffer (refiner) of KLUNGNESS rather than precipitated by the *in situ* reaction of calcium oxide or hydroxide and carbon dioxide.

Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over DOELLE in view of GREEN et al.

DOELLE teaches fluffing calcium oxide or hydroxide is added in a reactor/fluffer to form calcium carbonate. The pulp of DOELLE is fluffed in fluffer (18) with the added calcium hydroxide or oxide and the precipitated calcium carbonate that is formed is fluffed in fluffer (20). The fluffers of DOELLE would open up the fibers by increasing the specific surface of the fibers. The claimed conditions of the dependent claims do not appear to differ from the conditions used by DOELLE. Green et al teaches adding calcium carbonate directly into the pulp during agitation rather than precipitating calcium carbonate onto the pulp. It would have been obvious to the artisan that the calcium carbonate of DOELLE could have been added directly into the fluffer of DOELLE rather than precipitated by the *in situ* reaction of calcium oxide or hydroxide and carbon dioxide.

The argument that KLUNGNESS teaches using dry pulp rather than a stock suspension is not convincing as the instant process teaches using the same "Fiber Loading™" process used by KLUNGNESS et al. See the instant specification, page 2, lines 5-6 and page 1, lines 10-23. Besides it would have been obvious to add the calcium carbonate in a dry stage or in re-slurried form as such is taught by GREEN et al, page 3, lines 65-69.

The argument DOELLE et al and KLUNGNESS et al do not add particles of calcium carbonate is not convincing as the direct addition of calcium carbonate is taught by GREEN et al,

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see GREEN et al column 4, lines 59-61. Green et al teaches adding calcium carbonate directly into the pulp during agitation rather than precipitating calcium carbonate onto the pulp. It would have been obvious to the artisan that the calcium carbonate of DOELLE or KLUNGNESS et al could have been added directly into the fluffer of DOELLE or KLUNGNESS et al rather than precipitated by the *in situ* reaction of calcium oxide or hydroxide and carbon dioxide, as such is taught by GREEN et al.

Applicant's amendment, adding "at least one additive being CaCO₃", necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS**MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steve Alvo whose telephone number is 703-308-2048. The examiner can normally be reached on 6:00 AM to 2:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 703-308-3837. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Steve Alvo

Primary Examiner
Art Unit 1731

msa

September 28, 2002